

节水灌溉



2022 4

武汉大学 中国灌溉排水发展中心 主办

WATER SAVING IRRIGATION



大禹节水

DAYU WATER-SAVING

股票简称：大禹节水

股票代码：300021

国际灌排委员会（ICID）第一家中国企业成员

「物联网+云技术」 智慧化控制平台

智慧水务



大禹节水集团股份有限公司

Dayu Water-saving Group Co., Ltd

地址：天津市武清区京滨工业园民旺路10号

电话：022-59679301

传真：022-59679307

<http://www.dyjs.com>

E-mail: dyjs@dyjs.com

ISSN 1007-4929



9 771007 492082

万方数据

目次

基于DNDC模型的南方典型稻田氮素去向及其优化管理	周王子 洪 军 刘原草 等(1)
基于文献计量分析的土壤水盐运移研究进展	李阳阳 李王成 王 洁(8)
运行时长和淹没高度对雨水生物滞留系统氮素去除的影响	赵 凡 王洪浩 李京玲 等(16)
灌溉和种植模式对无膜滴灌棉花幼苗生长及光合特性的影响	龚珂宁 黄炳川 张 楠 等(21)
农业水权分配方法研究	潘少斌 刘路广 董 苇 等(27)
灌溉频率对日光温室早春茬黄瓜果实发育及根系分布的影响	杨冬艳 桑 婷 冯海萍 等(31)
茶树水溶性肥料产品现状及研究进展	张小琴 刘冠群 姜艳艳 等(37)
不同渗灌埋深下水氮模式对旱区马铃薯水氮分布及利用效率的影响	贾 帅 焦炳忠 高洪香(41)
不同水氮调控下夏玉米农田氮素运移及淋失特征分析	蔡晨阳 庞桂斌 薛建文 等(47)
前茬灌溉对夏玉米灌浆特性、土壤呼吸和产量的影响研究	付佳祥 柴春岭 高惠嫣 等(54)
水分调节对施用生物炭的重金属污染土壤速效养分的影响研究	张 兰 夏红霞 朱启红 等(60)
地膜残留对设施番茄生长及果实品质的影响	李卓然 马娟娟 郑利剑 等(65)
水肥一体化条件下设施甜瓜灌溉施肥制度试验研究	黄卿宜 孙一迪 周明耀 等(71)
腐殖酸钾对滨海粘质盐土主要盐分离子吸附与淋洗的影响	高绪龙 毛伟兵 孙玉霞 等(77)
华南丘陵地区典型流域的土壤水分时空变化及其驱动机制	刘 远 李思颖 周买春 等(83)
黄土丘陵沟壑区自然条件下不同辐射面蒸发蒸腾量的预测	贾 芳 樊贵盛(89)

Water Saving Irrigation (Monthly)

April 2022

No.4(2022) , Total No.320

Contents

A Study on Nitrogen Fate and Optimal Management for Paddy Fields in Southern China by Using DNDC Model	ZHOU Wang-zi, HONG Jun, LIU Yuan-cao, et al.(1)
Research Progress of Soil Water and Salt Transport Based on Bibliometric Analysis	LI Yang-yang, LI Wang-cheng, WANG Jie(8)
The Effects of Operating Time and Submerged Height on the Removal of Nitrogen in Stormwater Bioretention System	ZHAO Fan, WANG Hong-hao, LI Jing-ling, et al.(16)
Effects of Irrigation Quota and Seeding Density on Growth and Photosynthetic Characteristics of Cotton Seedlings Under Non-film Drip Irrigation.....	GONG Ke-ning, HUANG Bing-chuan, ZHANG Nan, et al.(21)
A Study on Agricultural Water Rights Distribution Method	PAN Shao-bin, LIU Lu-guang, DONG Wei, et al.(27)
Effects of Irrigation Frequency on Fruit Development and Root Distribution of Early Spring Cucumber in Solar Greenhouse	YANG Dong-yan, SANG Ting, FENG Hai-ping, et al.(31)
Product Status and Research Progress of the Water Soluble Fertilizers for Tea Tree	ZHANG Xiao-qin, LIU Guan-quan, JIANG Yan-yan, et al.(37)
Effects of Water and Nitrogen Patterns at Different Depths of Infiltration Irrigation on the Distribution of Water and Nitrogen and Usage Efficiency in Potato in Arid Regions	JIA Shuai, JIAO Bing-zhong, GAO Hong-xiang(41)
Nitrogen Transport and Leaching Characteristics of Summer Maize Under Different Water and Nitrogen Treatments	CAI Chen-yang, PANG Gui-bing, XUE Jian-wen, et al.(47)
Effect of Previous Crop Irrigation on Grain Filling Characteristics, Soil Respiration and Yield of Summer Maize	FU Jia-xiang, CHAI Chun-ling, GAO Hui-yan, et al.(54)
Effects of Water Regulation on Available Nutrients of Heavy Metal Polluted Soil Applied Biochar	ZHANG Lan, XIA Hong-xia, ZHU Qi-hong, et al.(60)
Effects of Plastic Film Residues on Soil Moisture and Growth Characteristics of Protected Tomatoes	LI Zhuo-ran, MA Juan-juan, ZHENG Li-jian, et al.(65)
Experimental Study on Irrigation and Fertilization Regime of Protected Melon Under Water and Fertilizer Integration	HUANG Qing-yi, SUN Yi-di, ZHOU Ming-yao, et al.(71)
Effect of Potassium Humate on Adsorption and Leaching of Main Salt Ions in Coastal Clay Saline Soil	GAO Xu-Long, MAO Wei-bing, SUN Yu-xia, et al.(77)
Spatiotemporal Variation of Soil Moisture Profile and Its Driving Mechanism in a Typical Watershed of South China Hill Region	LIU Yuan, LI Si-ying, ZHOU Mai-chun, et al.(83)
Prediction of Evapotranspiration from Different Radiation Surfaces Under Natural Conditions in the Loess Hilly and Gully Region	JIA Fang, FAN Gui-sheng(89)

Competent Authorities: Ministry of Water Resources

Sponsor: Chinese National Committee on Irrigation and Drainage

China Irrigation and Drainage Development Centre

Wuhan University

National Center of Efficient Irrigation Engineering and Technology Research-Beijing

Publisher and editor: Editorial Department of Water Saving Irrigation

(Wuhan University, Wuhan, 430072, China)

Editor in Chief: Cui Yuanlai **Distribute Scope:** Worldwide

Domestic Subscription: Every Post Office in China

E-mail: jieshuiguangai@188.com

Homepage: [http:// jsgu.cbpt.cnki.net](http://jsgu.cbpt.cnki.net)
